

## **Safe Trochar with guide for placement of Surgical Drains**

### **Abstract:**

A method and apparatus for the safe surgical placement of trochars, is provided. The trochar has a sheath protecting the sharp point. The guide includes a receiver, into which the trochar with sheath is inserted, protecting personnel against sticks. The guide has a holder that grips the trochar in the X, Y, Z and Theta directions, providing position and direction of the point. The guide provides a handle for holding the trochar, reducing effort. The trochar point is exposed only after opening the guide. The receiver with sheath is a target, which provides an accurate reference for the position of the sharp point. The target also provides support as the trochar is being advanced through soft tissue. The trochar is locked into the safety guide until the guide is closed, and the point is safely in the sheath. Since the guide may not be reopened, the trochar point and body fluids are safely covered. Operating Room personnel are protected against hazardous sharps injuries.